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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,575	07/11/2003	Jerry Wu	3544	
25859 7	590 08/16/2004		EXAMINER	
WEI TE CHUNG			LEON, EDWIN A	
	TERNATIONAL, INC.		ART UNIT	PAPER NUMBER
1650 MEMOREX DRIVE SANTA CLARA, CA 95050			2833	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/617,575	WU, JERRY			
		Examiner	Art Unit			
		Edwin A. León	2833			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with t	he correspondence address			
THE Non- after States If the If NO Failure Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Isions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. I period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 vill apply and will expire SIX (6) MONTHS, cause the application to become ABANE	be timely filed O) days will be considered timely. From the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status						
2a)⊠ 3)□	This action is FINAL. 2b) ☐ This action is non-final.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠	 ✓ Claim(s) 1-16 and 18 is/are pending in the application. ✓ 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1-5, 7-8, 10-16 and 18 is/are rejected. ✓ Claim(s) 6 and 9 is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers					
10) 🗌	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by drawing(s) be held in abeyance. tion is required if the drawing(s)	See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Apprix documents have been received in Equipments have been received.	lication No ceived in this National Stage			
· <u> </u>	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N	mary (PTO-413) Iail Date			
3) Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	5) Notice of Infor 6) Other:	mal Patent Application (PTO-152)			

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed June 2, 2004 in which Claims 1, 12, and 16 have been amended, has been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5, 7-8, 10-16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohsumi (U.S. Patent No. 5,664,326) in view of Peloza (U.S. Patent No. 5,362,260). With regard to Claims 1, 4-5, 7-8, 12-13, 16 and 18, Ohsumi discloses a cable assembly comprising: an insulating housing (A) defining a cavity (1); a contact (B) received in the cavity (1) of the housing (A), the contact (B) comprising an intermediate portion (5), a central contact beam (8) extending form one end of the intermediate portion (5) and being deflectable relative to the intermediate portion (5) along a first direction (up and down), and a tail portion (B2) extending from an opposite end of the intermediate portion (5); and a cable (W) terminated to the tail portion (B2) of

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corresponding contact (B), the intermediate portion (5) having a retention device (lower protrusion shown in Fig. 1) thereon for engagement within a passageway (Fig. 1) of the housing (A). See Figs. 1-6.

However, Ohsumi doesn't show the housing having a plurality of cavities receiving a plurality of cables and contacts having pair of side contact beams extending from two opposite sides of the intermediate portion, the side contact beams are located between the first and the second curved portions of the central contact beam along a longitudinal direction of the contact, the side contact beams comprise a pair of vertical arms located at opposite sides of the first spring arm and a pair of resilient side arms extending rearwardly from the vertical arms and having connecting portions extending toward each other and each of the pair of side contact beams being deflectable relative to the intermediate portion along a second direction different from the first direction.

Peloza discloses a similar connector assembly (10, 12) having a housing (12) having a plurality of cavities (14) receiving a plurality of cables (W) and contacts (10) having a pair of side contact beams (40) extending from two opposite sides of an intermediate portion (28), the side contact beams (40) comprise a pair of vertical arms (44, 46) located at opposite sides and a pair of resilient side arms (36) extending rearwardly from the vertical arms (44, 46) and having connecting portions (Fig. 2) extending toward each other and each of the pair of side contact beams (40) being deflectable relative to the intermediate portion (28) along a second direction (transverse to the axis 18, Column 3, Lines 42-55). See Figs. 1-6.

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Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the assembly of Ohsumi by including a pair of side contact beams extending from two opposite sides of an intermediate portion, the side contact beams comprise a pair of vertical arms located at opposite sides and a pair of resilient side arms extending rearwardly from the vertical arms and having connecting portions extending toward each other, each of the pair of side contact beams being deflectable relative to the intermediate portion along a second direction different from the first direction as taught in Peloza in order to provide a more effective and resilient engagement between the assembly and a mating male connector.

With regard to Claim 2, Ohsumi discloses the central contact beam (8) comprising a first spring arm (upper part of 8) extending upwardly and rearwardly from the intermediate portion (5) and a second spring arm (lower part of 8) extending forwardly and downwardly from the first spring arm (upper part of 8) and having a free end (distal free end of 8) for abutting against the intermediate portion (5). See Figs. 1-6.

With regard to Claim 3, Ohsumi discloses the first spring arm (upper part of 8) having a first curved portion (front curve that attaches 8 with 5) connecting with the one end of the intermediate portion (5) and a second curved portion (back curve of 8) connecting with the second spring arm (lower part of 8) for contacting with a complementary contact. See Figs. 1-6.

With regard to Claim 8, Ohsumi discloses the housing (A) defines a pair of slits (located in the distal end of 4, where the lower protrusion of 5 is received) communicating with the cavity (1), the slits (located in the distal end of 4, where the

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lower protrusion of 5 is received) receiving opposite side edges (9, lower protrusion of 5) of the intermediate portion (5) therein. See Figs. 1-6.

With regard to Claim 10, Ohsumi discloses the cable (W) including an inner conductive core (shown in Fig. 1) and an outer insulator (shown in Fig. 1) surrounding the inner conductive core (shown in Fig. 1), the cable (W) having an exposed conductive core (shown in Fig. 1) at one end thereof, and wherein the tail portion (B2) comprises two pairs of gripping wings (located in B2) respectively crimped onto the exposed conductive core (shown in Fig. 1) and the insulator (shown in Fig. 1). See Figs. 1-6.

With regard to Claim 11, Ohsumi discloses the housing (A) if formed with a plurality of latching bosses (3, 4) on a top thereof for being received in a corresponding latching slot (9) of a complementary connector (B). See Figs. 1-6.

With regard to Claim 14, Ohsumi discloses the central contact beam (8) comprises a first spring arm (upper part of 8) extending upwardly and rearwardly form the intermediate portion (5) and a second spring arm (lower part of 8) extending forwardly and downwardly form the first spring arm (upper part of 8) and having a free end (distal end of 8) to abut against the intermediate portion (5). See Figs. 1-6.

With regard to Claim 15, Ohsumi discloses the first spring arm (upper part of 8) has a first curved portion (front curve that attaches 8 with 5) connecting with the one end of the intermediate portion (5) and a second curved portion (back curve of 8) connecting with the second spring arm (lower part of 8). See Figs. 1-6.

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Allowable Subject Matter

4. Claims 6 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims for the reasons stated in the Office Action of March 2, 2004.

Response to Arguments

5. Applicant's arguments filed June 2, 2004 have been fully considered but they are not persuasive. In response to Applicant's arguments regarding Claims 1, 12 and 16, that the Peloza reference does not show the pair of side contact beams being used to contact the mating contact but rather shows it holding the contact in the housing, Applicant is reminded that in order to hold the mating contact in the housing contact beams have to contact the mating contact. The fact that the Peloza reference discloses an additional function not claimed is irrelevant.

In response to Applicant's arguments regarding Claims 1, 12 and 16, that the Peloza reference does not show the pair of side contact beams being deflectable relative to the intermediate portion along a second direction different from the first direction, Applicant's attention is directed to Column 3, Lines 42-55 of the Peloza reference in which it is disclosed that the contact beams (40) move transverse to the

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axis 18. Therefore, it is the Examiner's opinion that the combination of Ohsumi and Peloza would show the pair of side contact beams being deflectable relative to the intermediate portion along a second direction different from the first direction of the central contact beam.

Conclusion

THIS ACTION IS MADE FINAL necessitated by amendment. Applicant is 6. reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the 7. examiner should be directed to Edwin A. León whose telephone number is (571) 272-2008. The examiner can normally be reached on Monday - Friday 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800, extension 33. The fax

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phone number for the organization where this application or proceeding is assigned is

703-872-9306.

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Edwin A. Leon

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